HES7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HES7, Polyclonal Antibody
Full Product Name	HES7, NT (HES7, BHLHB37, Transcription factor HES-7, Class B basic helix-loop-helix protein 37, Hairy and enhancer of split 7, bHLH factor Hes7) (MaxLight 750)
Product Gene Name	anti-HES7 antibody
Product Synonym Names	HES7; BHLHB37; Transcription factor HES-7; Class B basic helix-loop-helix protein 37; Hairy and enhancer of split 7; bHLH factor Hes7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,280 Da
OMIM	608059
3D Structure	ModBase 3D Structure for Q9BYE0
Immunogen	HES7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33~63 amino acids from the N-terminal region of human HES7.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-HES7 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-HES7 antibody	Western Blot (WB), FLISA
Application Notes for anti-HES7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HES7 antibody	HES7 is a member of the hairy and enhancer of split family of bHLH transcription factors. The protein functions as a transcriptional repressor, and is implicated in correct patterning of the axial skeleton.
Product References and Citations for anti-HES7 antibody	Sparrow, D.B., et al. Hum. Mol. Genet. 17(23):3761-3766(2008). Olsen, J.V., et al. Cell 127(3):635-648(2006). Olsen, J.V., et al. Cell 127(3):635-648(2006).
Other Notes	Small volumes of anti-HES7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for HES7 purchase	MBS6306239 is an antibody targeting HES7. Also known as HES7, NT (HES7, BHLHB37, Transcription factor HES-7, Class B basic helix-loop-helix protein 37, Hairy and enhancer of split 7, bHLH factor Hes7) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HES7. It may not necessarily be applicable to this product.

NCBI GI #	260166650
NCBI GeneID	84667
NCBI Accession #	NP_001159439.1
UniProt Primary Accession #	Q9BYE0
UniProt Secondary Accession #	F8VPC9
UniProt Related Accession #	Q9BYE0
GenBank Nucleotide #	NM_001165967.1
NCBI Official Full Name	transcription factor HES-7 isoform 1
NCBI Official Synonym Full Names	hes family bHLH transcription factor 7
NCBI Official Symbol	HES7
NCBI Official Synonym Symbols	SCDO4; bHLHb37
UniProt Protein Name	Transcription factor HES-7
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 37; bHLHb37; Hairy and enhancer of split 7; bHLH factor Hes7
Protein Family	Transcription factor
UniProt Gene Name	HES7
UniProt Synonym Gene Names	BHLHB37; hHes7; bHLHb37
UniProt Entry Name	HES7_HUMAN
NCBI Protein Information	transcription factor HES-7; bHLH factor Hes7; class B basic helix-loop-helix protein 37; hHes7; hairy and enhancer of split 7
NCBI Summary for HES7	This gene encodes a member of the hairy and enhancer of split family of bHLH transcription factors. The mouse ortholog of this gene is regulated by Notch signaling. The protein functions as a transcriptional repressor, and is implicated in correct patterning of the axial skeleton. A mutation in this gene has been shown to result in spondylocostal dysostosis. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

UniProt Comments for HES7	HES7: Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation. Defects in HES7 are the cause of spondylocostal dysostosis type 4 (SCDO4). A rare condition of variable severity characterized by vertebral and costal anomalies. The main feature include dwarfism, vertebral fusion, hemivertebrae, posterior rib fusion, reduced rib number, and other rib malformations. Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: nucleus Molecular Function: protein dimerization activity; DNA binding; transcription factor binding Biological Process: somitogenesis; Notch signaling pathway; transcription, DNA-dependent; rhythmic process; mesoderm development; negative regulation of transcription from RNA polymerase II promoter; regulation of somitogenesis; skeletal development Disease: Spondylocostal Dysostosis 4, Autosomal Recessive
Research Articles on HES7	**1.** mutation of HES7 is uniquely associated with defects in vertebral, heart and neural tube formation, and this observation will help provide a discriminatory diagnostic guide in patients with SCD, as well as inform molecular genetic testing.
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